

FIG. 1

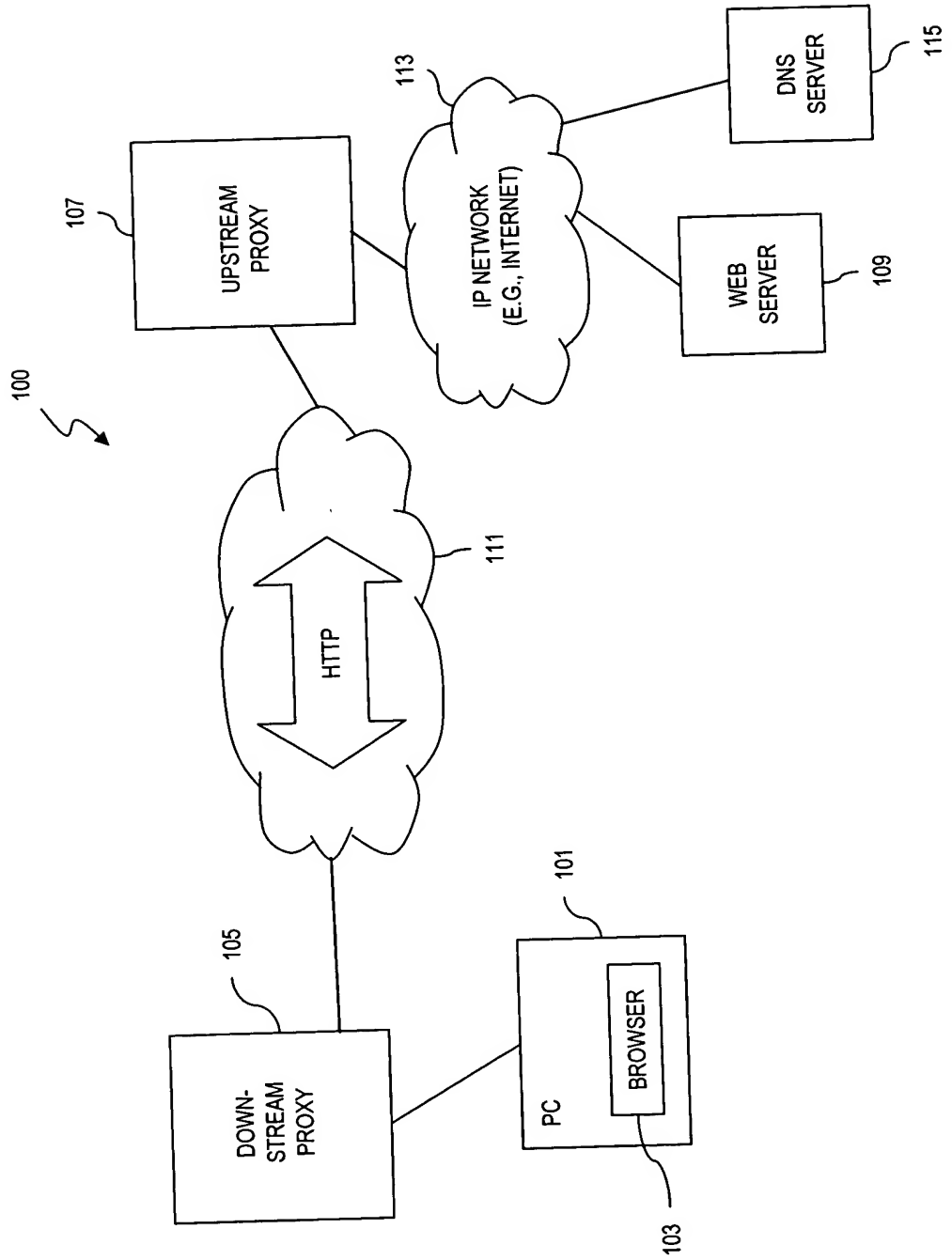
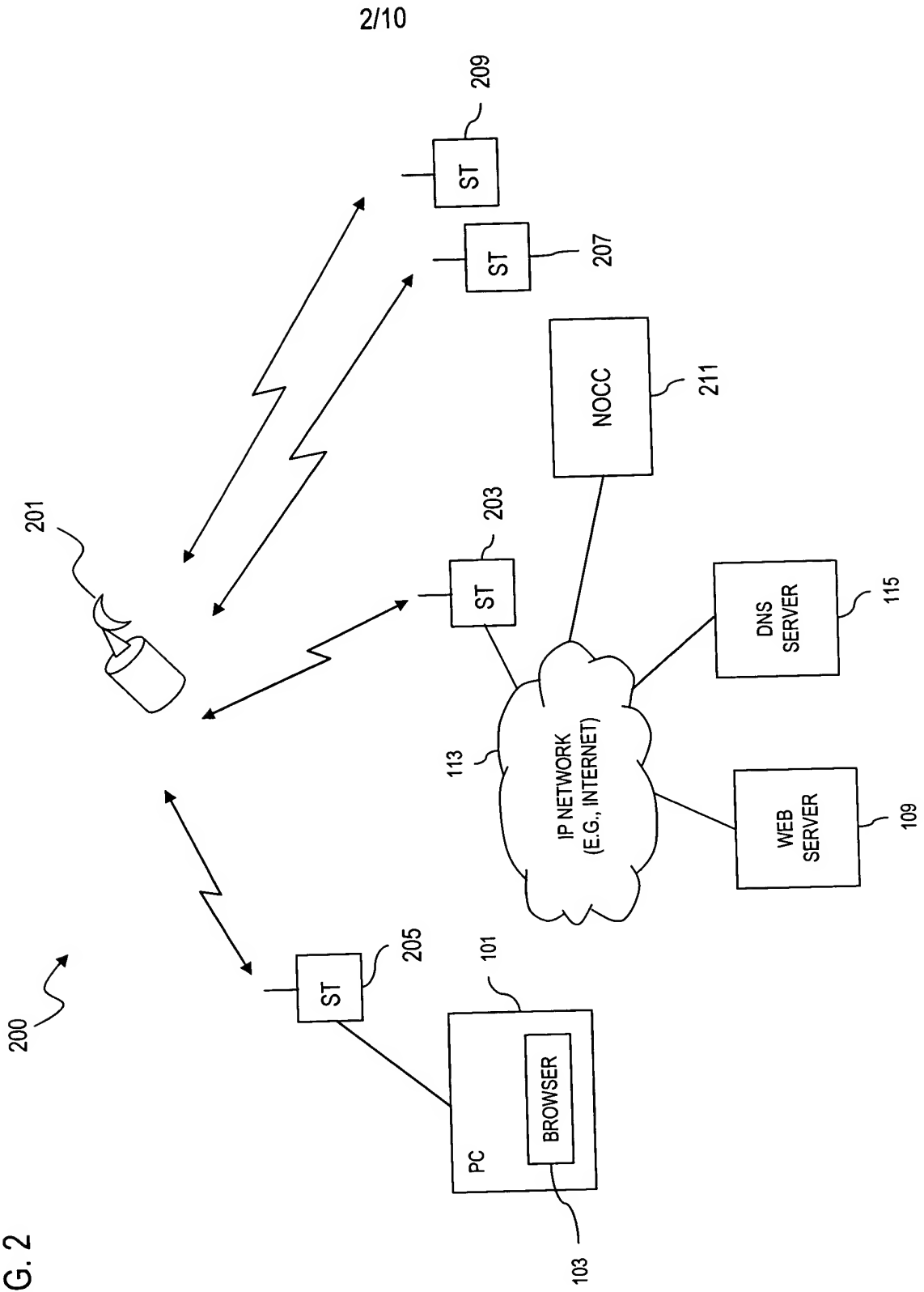


FIG. 2



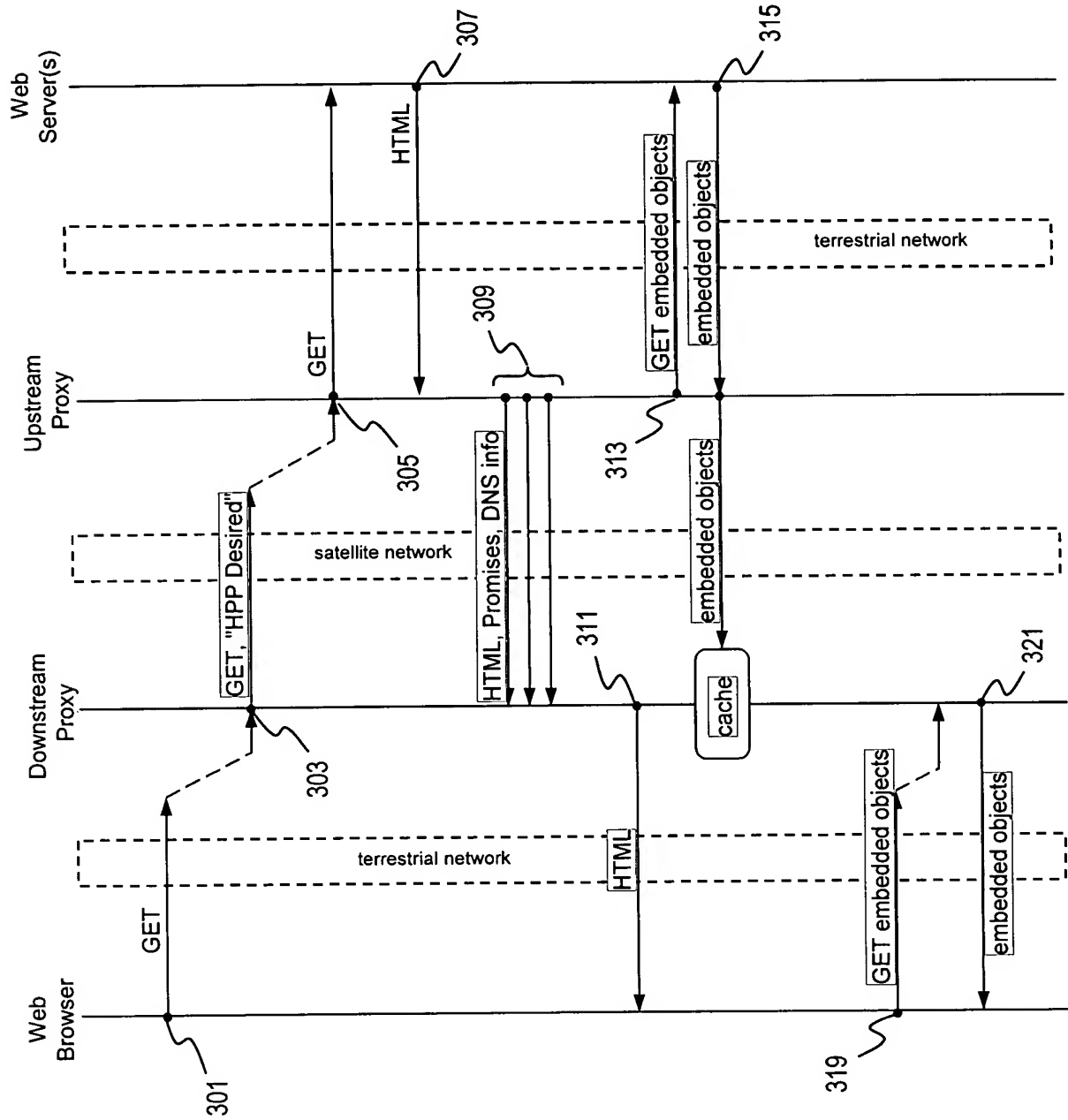


FIG. 3

FIG. 4

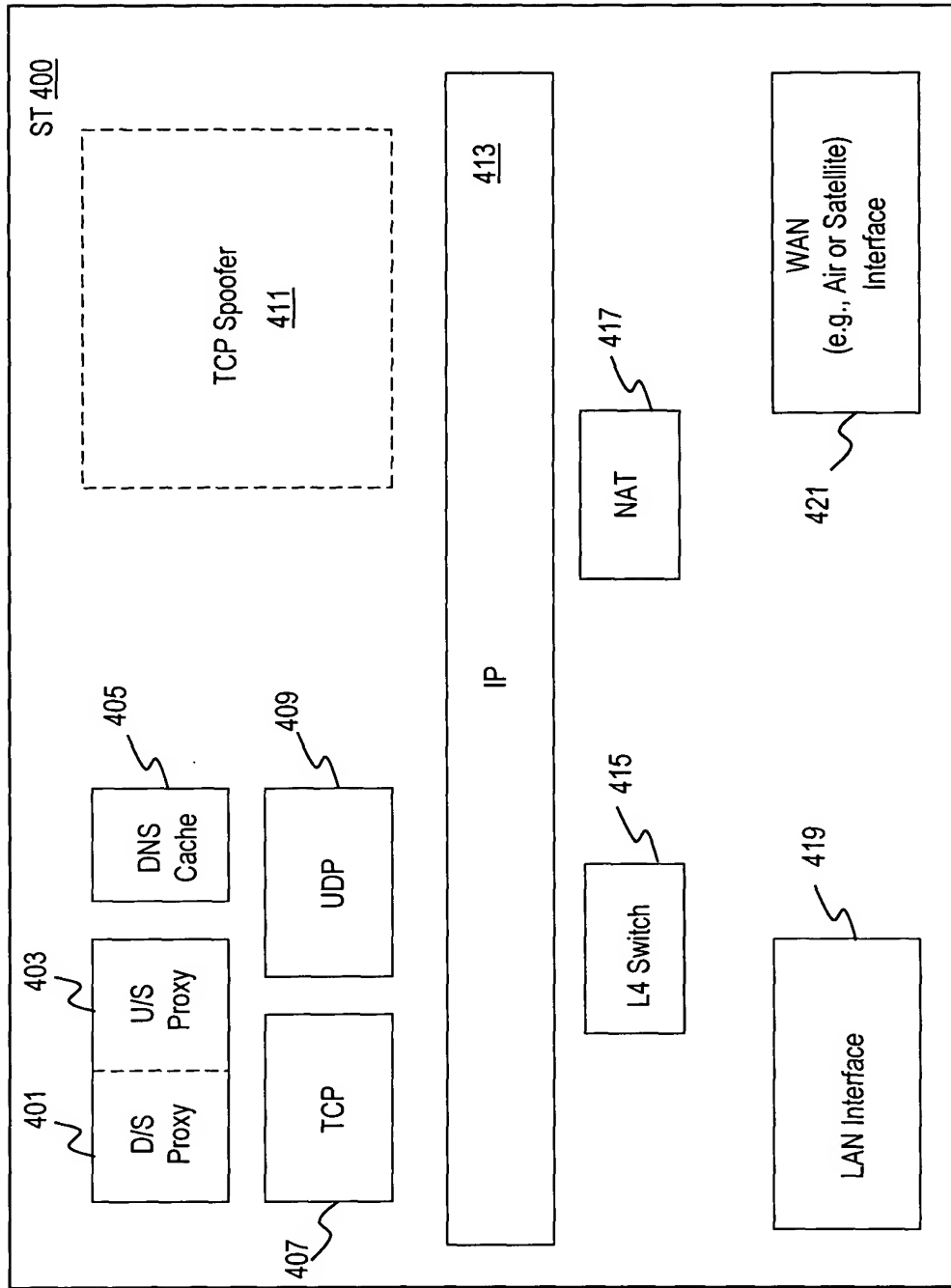


FIG. 5A

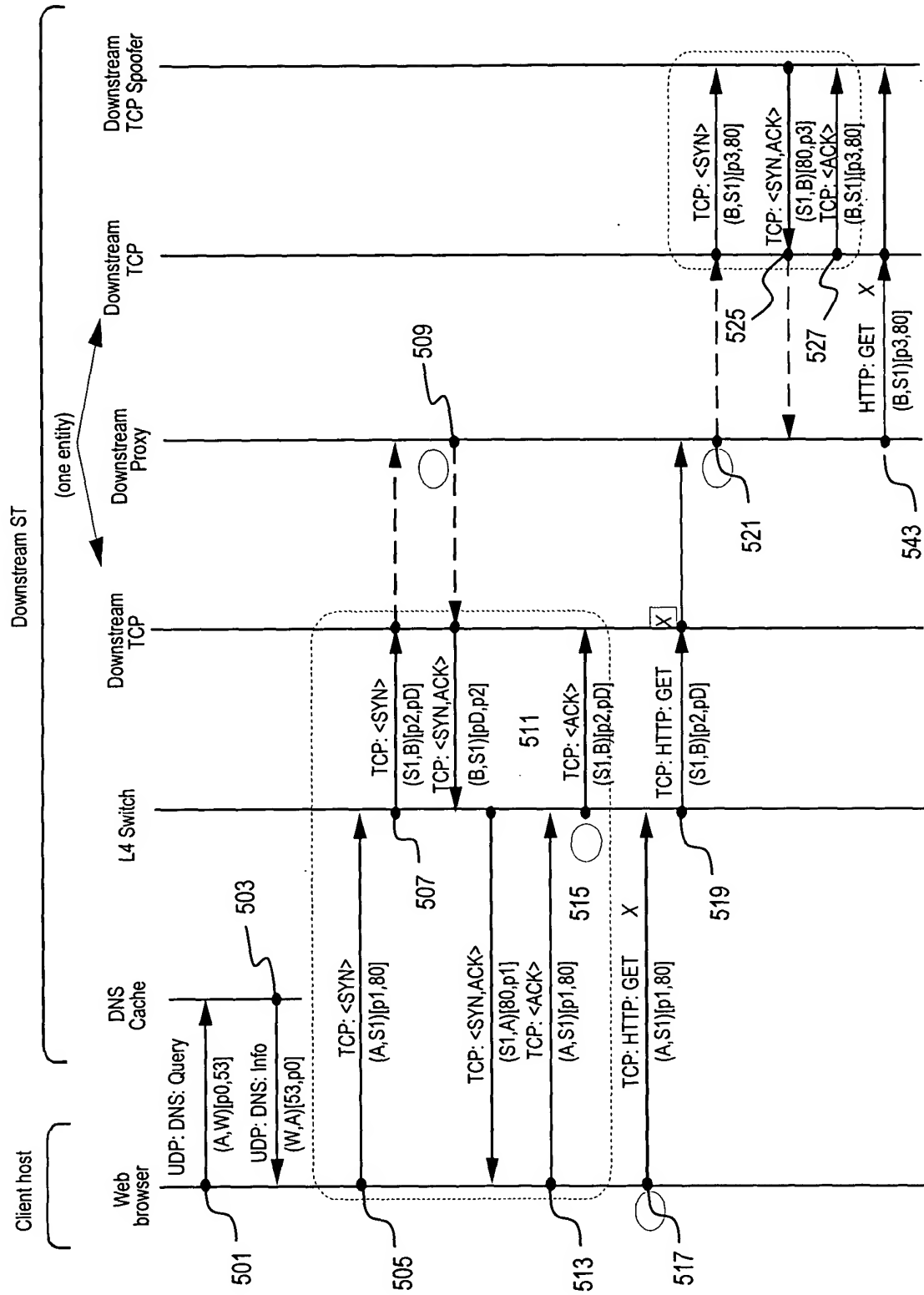


FIG. 5B

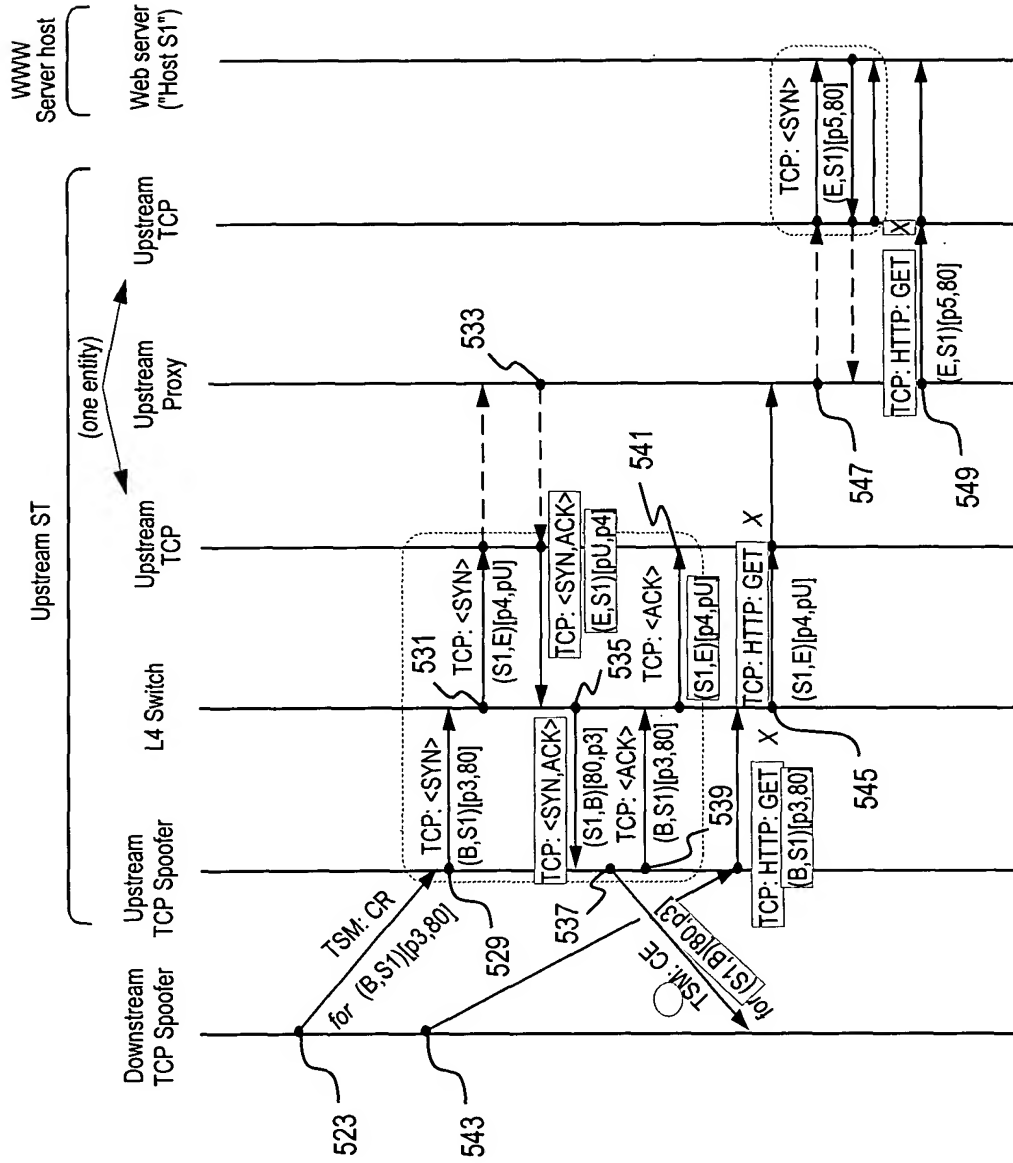
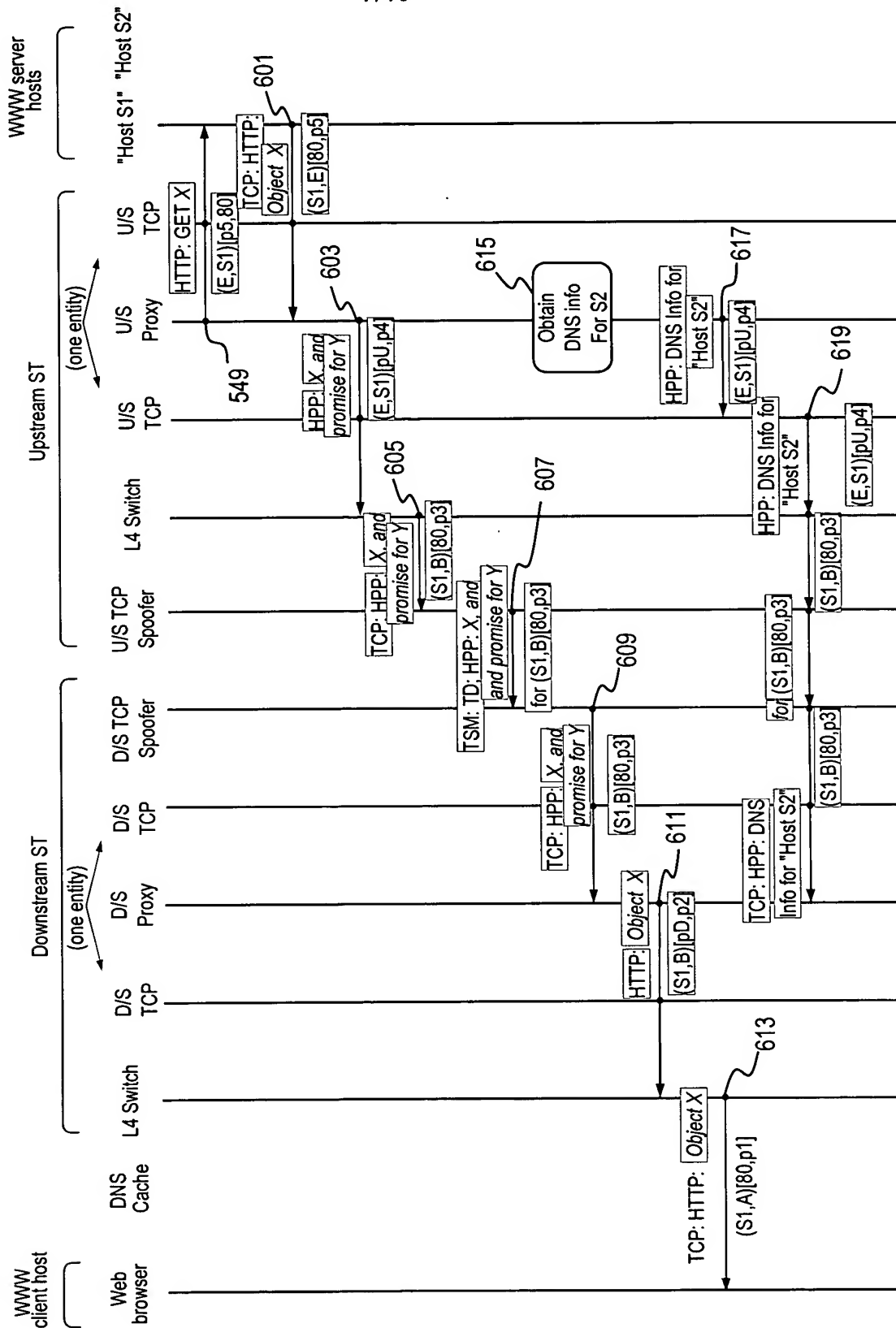


FIG. 6A



The diagram illustrates a network architecture for a WWW client host, Downstream ST, Upstream ST, and WWW server hosts. The architecture is divided into three main sections: 631 (DNS and Cache), 635 (TCP and HTTP), and 639 (HTTP and Object Y).

631: DNS and Cache

- WWW client host:** Web browser, DNS, Cache, L4 Switch, D/S TCP, D/S Proxy, D/S Spoofers.
- Downstream ST:** D/S TCP, D/S Proxy, D/S Spoofers, L4 Switch, U/S TCP, U/S Spoofers, L4 Switch, U/S Proxy, U/S TCP.
- Upstream ST:** U/S TCP, U/S Proxy, U/S TCP.
- WWW server hosts:** Host S1, Host S2.

635: TCP and HTTP

- WWW client host:** DNS: Query for "Host S2", DNS: Info for "Host S2", Cache: Lookup: Hit, Cache: (A,W)[p0,53], (W,A)[53,p0].
- Downstream ST:** D/S TCP: TCP: <SYN>, D/S Proxy: GET Y, D/S Spoofers: TCP: HPP: Object Y, TCP: HPP: Object Y, L4 Switch: TCP: HPP: Object Y, U/S TCP: TSM: TP, HPP: Object Y, U/S Spoofers: TCP: HPP: Object Y, L4 Switch: TCP: HPP: Object Y, U/S Proxy: HTTP: GET Y, U/S TCP: [E,S2][p6,80].
- Upstream ST:** U/S TCP: [E,S2][p6,80], U/S Proxy: [E,S2][p6,80], U/S TCP: [E,S2][p6,80].
- WWW server hosts:** Host S1: [E,S1][pU,p4], Host S2: [E,S2][p6,80].

639: HTTP and Object Y

- WWW client host:** Web browser: Parse HTML, DNS: Query for "Host S2", DNS: Info for "Host S2", Cache: Lookup: Hit, Cache: (A,W)[p0,53], (W,A)[53,p0].
- Downstream ST:** D/S TCP: TCP: <SYN>, D/S Proxy: GET Y, D/S Spoofers: TCP: HPP: Object Y, TCP: HPP: Object Y, L4 Switch: TCP: HPP: Object Y, U/S TCP: TSM: TP, HPP: Object Y, U/S Spoofers: TCP: HPP: Object Y, L4 Switch: TCP: HPP: Object Y, U/S Proxy: HTTP: GET Y, U/S TCP: [E,S2][p6,80].
- Upstream ST:** U/S TCP: [E,S2][p6,80], U/S Proxy: [E,S2][p6,80], U/S TCP: [E,S2][p6,80].
- WWW server hosts:** Host S1: [E,S1][pU,p4], Host S2: [E,S2][p6,80].

FIG. 7

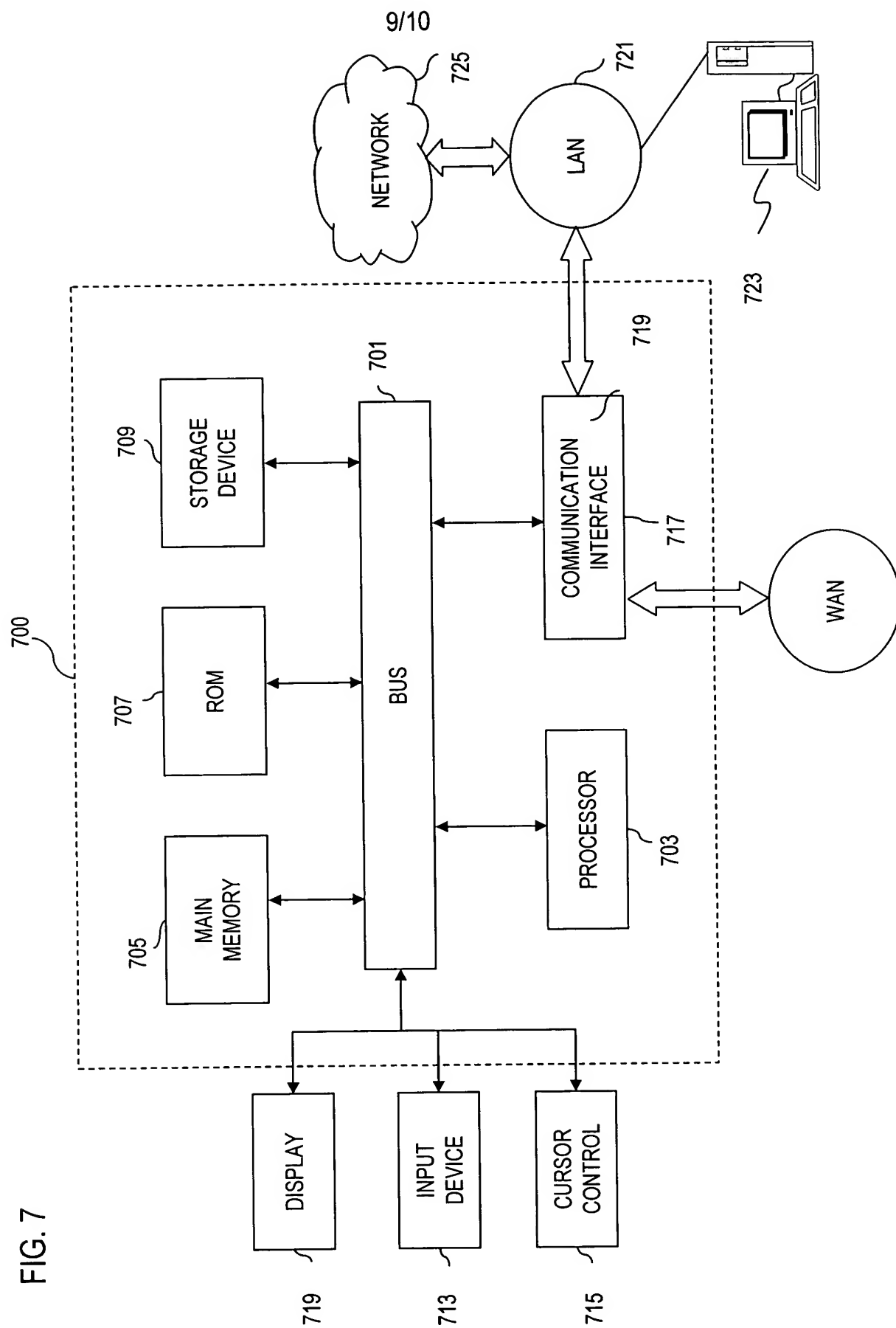


FIG. 8

